

JANUARY 2014

CURRICULUM VITAE OF EDWARD V. SARGENT

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UNDERGRADUATE EDUCATION: BA - Biology
University of Connecticut, 1973

GRADUATE EDUCATION: MPH - Environmental Health
Yale University, 1975

Ph.D. - Toxicology
New York University, 1981

WORK EXPERIENCE: Managing Director (Current)
EV Sargent LLC a limited liability company organized in February 2007 and existing under the laws of the State of Florida, providing strategic consultation and service in occupational and environmental toxicology, risk assessment and regulatory compliance with an office at 1430 Gulf Boulevard, Suite 205, Clearwater, FL 33767

Senior Director of Toxicology (Retired)
Merck & Co., Inc.
Two Merck Drive
Whitehouse Station, NJ 08889-0200
2000 - 2006

Chief scientific and technical authority for the Corporation in the areas of toxicology, occupational health, environmental risk assessment and regulatory compliance. Responsible for directing broad based technical programs for occupational and environmental toxicology, industrial hygiene, risk assessment, worldwide chemical notifications, US, EU and Canadian FDA Environmental Assessments, epidemiology, hazard communications and Right-to-Know programs and the evaluation and dissemination of regulatory and technical information relevant to all aspects of occupational and environmental health.

1993-2000 - Director of Toxicology and Environmental Health

1989-1993 - Associate Director of Toxicology and Epidemiology
1981-1989 - Manager of Industrial Toxicology

CERTIFICATIONS: Diplomat, American Board of Toxicology

ACADEMIC APPOINTMENTS: Adjunct Full Professor of Public Health, Rutgers University
School of Public Health, Piscataway, NJ.

PROFESSIONAL ORGANIZATIONS (AND COMMITTEES OF THESE)

American Board of Toxicology
Board of Directors, 1997 – 2001
Secretary, 2000-2001

American Industrial Health Council
Member: Environmental Health Risk Assessment Committee, 1995 - 1998
Member: Science Policy Committee, 1998 – 1999
Chairman: Hazard Characterization Committee, 1999 -2001

American College of Toxicology

American Red Cross Advisory Committee on First Aid and Safety 1998-2007
Reappointed to a second term, 2008-2010
Vice Chairman, 1998 - 2006

American Chemistry Council
Member: Risk Assessment Methods Technical Implementation Panel, 1998 - 2003

International Society for Regulatory Toxicology and Pharmacology
Board of Directors, 2000 – Present

International Society of Pharmaceutical Engineering
Member, 2005 - Present

Passaic River Coalition
Board of Directors, 1997 - 2006

Pharmaceutical Research and Manufacturers Association:
Occupational Safety and Health Committee, Member 1983 - 1995
International Environmental Committee, 1997 - 2006
Pharmaceuticals in the Environment Working Group, 2000 - 2006

Mid-Atlantic Chapter of Society of Toxicology:
Program Committee, Member 1985 - 1987.
Board of Councilors, 1987 - 1990.
Vice-President Elect 1992 - 1993
Vice-President 1993 - 1994
President 1994 – 1995

Society of Toxicology Occupational Health Specialty Section
Councilor, 1998 - 2001

Society of Toxicology Risk Assessment Specialty Section
Vice-President Elect 2001
Vice President 2002
President 2003

State of New Jersey Right-to-Know Advisory Council
Governor's Appointment 1986 - 1995

State of New Jersey Department of Health Occupational Disease
Surveillance Advisory Group; Member, 1988-2006

CIVIC ORGANIZATIONS

Fanwood (New Jersey) Rescue Squad, Member 1984-Present
President 2001 – 2003
Life Member 2006-Present
Fanwood Town Planning Board 2001-2004

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS and COMMITTEES

Agency for Toxic Substances and Disease Registry - Peer Reviewer

Division of Health Effects Research, Hazardous Materials Research Center - Peer Review Committee

External Curriculum Advisory Committee - Environmental and Occupational Health Sciences Institute - University of Medicine and Dentistry of New Jersey (EOHSI)

National Institute for Occupational Safety and Health, Hazardous Drug Safe Handling Working Group. 2000 – 2004

International Society of Pharmaceutical Engineering Co-Editor of ISPE Guideline on Risk Based Manufacturing of Active Pharmaceutical Ingredients (Risk-MAPP) – (2006-present).

Member of the American Conference of Governmental Industrial Hygienists Threshold Limit Value (TLV) Committee, (2007-present)

National Academy of Sciences Standing Committee on Risk Analysis Issues and Reviews, *Characterizing the Potential Human Toxicity from Low Doses of Pharmaceuticals in Drinking Water: Are New Risk Assessment Methods or Approaches Required?* Invited Workshop Panelist, December 11-12, 2008, Washington DC.

Expert Review Panel, US Army, Review of Occupational Exposure Limits, Aberdeen MD, 2012.

GRADUATE STUDENT ADVISORY COMMITTEES

Maria Figliomeni (1997) Ethanol Does Not Increase the Hepatotoxicity of Cocaine in Primary Rat Hepatocytes, PhD Dissertation Committee, M. Abdel-Rahman, Advisor, Department of Pharmacology and Toxicology, UMDNJ, Newark, NJ.

Stephanie Hamel, (1998) Bioaccessibility of Metals in Soils for Different Liquid to Solid Ratios in Synthetic Gastric Fluid, PhD Dissertation Committee, P. Lioy, Advisor, Environmental and Occupational Health Science Institute, UMDNJ, Piscataway, NJ.

Keith Silverman, (1999) Establishing Data Derived Adjustment Factors from Published Pharmaceutical Clinical Data, MPH Fieldwork Site Supervisor, M. Gallo, Advisor, School of Public Health, UMDNJ, Piscataway, NJ.

Lisa Schulman, (2001) A Human Health Risk Assessment of Pharmaceuticals in the Aquatic Environment, MS Fieldwork Supervisor, J. Wargo, Advisor, Yale University School of Forestry and Environmental Studies, New Haven, CT.

Ramez Labib (2002) Studies on the Hepatotoxicity of Cocaine and Endotoxin Alone and in Combination in Mice, PhD Dissertation Committee, M. Abdel-Rahman, Advisor, Department of Toxicology and Pharmacology, UMDNJ, Newark, NJ.

Eliana Gafanhao (2004) Evaluation of the Vapor Intrusion Pathway, MPH Fieldwork Site Supervisor, M. Robson, Advisor, School of Public Health, UMDNJ, Piscataway, NJ.

Keith Silverman (2006) Evaluation of the MACT Provisions of Title III of the 1990 Clean Air Act Amendments: Risk, Cost and Benefits, PhD Dissertation Committee, Z. Qiu, Advisor, Department of Environmental Studies, New Jersey Institute of Technology, Newark, NJ.

Diann Blanset (2006) Human Health Risk Assessment of Unregulated Organic Compounds in New Jersey Drinking Water PhD Dissertation Committee, M. Robson, Advisor, School of Public Health, UMDNJ, Piscataway, NJ.

Nicholas Roden (2013) A Cumulative Risk Assessment of Pharmaceuticals in Drinking Water to Human Health, PhD Dissertation Committee, M. Robson, Advisor, School of Public Health, UMDNJ, Piscataway, NJ.

AWARDS

Society of Toxicology, Risk Assessment Specialty Section, Outstanding Published Paper Demonstrating an Application of Risk Assessment, 2000.

Society of Toxicology, Risk Assessment Specialty Section, Outstanding Published Paper Demonstrating an Application of Risk Assessment, 2004.

National Occupational Research Agenda, Partnering Award for Worker Safety and Health for Collaborative Partnerships and Products of the NIOSH Hazardous Drug Working Group, 2006.

Society of Toxicology, Mid-Atlantic Chapter, Ambassador of Toxicology Award, 2013.

PUBLICATIONS

Sargent, E.V., C.A. Mitchell, R.E. Brubaker. (1976) Respiratory Effects of Occupational Exposure to an Epoxy Resin System. Archives of Environmental Health, 31:236-240.

Burns, F.J. and E.V. Sargent. (1981) The Induction and Repair of DNA Breaks in Rat Epidermis Irradiated with Electrons. Radiation Research, 87:137-144.

Sargent, E.V. and F.J. Burns. (1985) Repair of Radiation Induced DNA Damage in Rat Epidermis as a Function of Age. Radiation Research, 102:176-181.

Sargent, E.V., G.D. Kirk and M. Hite. (1986) Hazard Evaluation of Monochloroacetone. American Industrial Hygiene Association Journal, 47:375-378.

Sargent, E.V. and M.O. Bradley. (1986) Genotoxic Activity of m-Nitrobenzaldehyde. Mutation Research, 175:133-137.

Sargent, E.V. and F.J. Burns. (1987) Radioautographic Measurement of Electron-Induced Epidermal Kinetic Effects in Different Aged Rats. Journal of Investigative Dermatology, 88: 320-323.

- Sargent, E.V. and F.J. Burns. (1987) The Early and Late Effect of Ultraviolet Light Exposure on the Induction and Repair of Electron-Induced DNA Damage in Rat Epidermis. Mechanisms of Aging and Development, 39:233-243.
- Sargent, E.V. and G.D. Kirk. (1988) Establishing Airborne Exposure Control Limits in the Pharmaceutical Industry. American Industrial Hygiene Association Journal, 49:309-313.
- Sargent, E. V., Adolph, J., Clemmons, M. K., Kirk, G. D., Pena, B. M., and Fedoruk, M. J. (1990) The Evaluation of Flu-like Symptoms in Workers Handling Xanthan Gum Powder. Journal of Occupational Medicine. 32:625-630.
- Naumann, B.D., and E.V. Sargent. (1990) Application of the PMA Procedure for Setting Residue Limits for Organic Volatile Solvents in Pharmaceuticals to Trichloroethylene, Pharmacopeial Forum, May-June, p.573-582.
- Sargent, E.V., A.R. Kraynak, R.D. Storer, M.O. Bradley, and R.M. Perry. (1991) The Effect of Deuterium Labeling on the Genotoxicity of N-Nitrosodimethylamine, Epichlorohydrin, and Dimethyl Sulfate, Mutation Research, 263:9-12.
- Nilsson, R., B. Molholt, and E.V. Sargent. (1991) Quantitative Assessment of the Toxicological Potential of Propylene Oxide, Regulatory Toxicology and Pharmacology, 14:229-244.
- Bukowski, J.A., E.V. Sargent, and B.M. Pena. (1992) An Evaluation of The Neurological Effects of Solvents Using a Standard Interval History Questionnaire. American Journal of Industrial Medicine, 22:337-345.
- O'Neal, C., E.V. Sargent, and W. Bagdon. (1992) Rabbit Eye Irritation Tests of Pharmaceutical Intermediates, Journal of the American College of Toxicology, Part B., Acute Toxicology Data, 1:178-182.
- O'Neal, C., E.V. Sargent, and W. Bagdon. (1992) Acute Toxicologic Evaluation: 4-Methyl Thiazole; 2-Bromo-2-Hydroxyacetophenone; P-Anisidine; 2, 4-Difluoronitrobenzene; and Dienone. Journal of the American College of Toxicology, Part B., Acute Toxicology Data, 1:182-186.
- Sina, J.F., D.M. Galer, R.G. Sussmann, P.D. Gautheron, E.V. Sargent, B. Leong, P.V. Shah, R.D. Curren and K. Miller. (1995) A Collaborative Evaluation of Seven Alternatives to the Draize Eye Irritation Test Using Pharmaceutical Intermediates: Fundamental and Applied Toxicology. 26:30-31.
- Naumann, B.D., E.V. Sargent, B.S. Starkman, W.J. Fraser, G.T. Becker and G.D. Kirk. Performance-Based Exposure Control Limits for Pharmaceutical Active Ingredients. American Industrial Hygiene Association Journal. (1996) 50:33-42.
- Sargent, E.V., B.D. Naumann, C.S. Schwartz and G.L. Sprague. (1997) Occupational Toxicology Testing, Comprehensive Toxicology, Vol. 2., Toxicological Testing and Evaluation, P. Williams and G. Hottendorf eds., Elsevier Science Ltd., Oxford.
- Naumann, B.D. and E.V. Sargent (1997) Setting Occupational Exposure Limits for Pharmaceuticals, Occupational Medicine: State of the Art Reviews, Vol. 12, No. 1, Hanley and Belfaus Inc., Philadelphia.
- Naumann, B.D., P.A. Weideman, R. Dixit, S.J. Grossman, C.F. Shen and E.V. Sargent. (1997) Use of Toxicokinetic and Toxicodynamic Data to Reduce Uncertainties When Setting

Occupational Exposure Limits for Pharmaceuticals, Human and Ecological Risk Assessment, 3: 555-565.

Silverman, K.C., B.D. Naumann, D.J. Holder, R. Dixit, E.C. Faria, E.V. Sargent, M.A. Gallo (1999). Establishing Data Derived Adjustment Factors from Published Pharmaceutical Clinical Trial Data, Human and Ecological Risk Assessment. 5:1059-1089.

Sargent, E.V., J.F. Sina, J.E. Barnum, R.D. Storer, T.E. Johnson, S.M. Galloway, M.G. Prato, N.N. Kirsten, and B.D. Naumann (1999). Occupational Hazard Evaluation of p-Bromobenzyl Bromide from Tests for Genotoxicity, Drug and Chemical Toxicology. 22:583-593.

Sargent, E.V. and B.D. Naumann (2001). Occupational Exposure Limits, Handbook of Chemical Health and Safety; Section II Risk and Hazard Assessment, Alaimo RJ, ed., American Chemical Society Books, Washington, DC.

Naumann, B.D., K.C. Silverman, R. Dixit, E.C. Faria, and E.V. Sargent (2001) Case Studies of Categorical Data – Derived Adjustment Factors, Human and Ecological Risk Assessment. 7:61-105.

Proctor, D.M., J.B. Otani, B.L. Finley, D.J. Paustenbach, J.A. Bland, N. Speizer, and E.V. Sargent (2002). Is Hexavalent Chromium Carcinogenic via Ingestion: A Weight of Evidence Review, Journal of Toxicology and Environmental Health, Part A, 65:701-746.

Schulman, L.J., E.V. Sargent, B.D. Naumann, E.C. Faria, D.G. Dolan, J.P. Wargo (2002). A Human Health Risk Assessment of Pharmaceuticals in the Aquatic Environment, Human and Ecological Risk Assessment, 8:657-680.

Sargent, E.V. B.D. Naumann, D.G. Dolan, E.C. Faria and L. Schulman, (2002). The Importance of Human Data in the Establishment of Occupational Exposures Limits, Human and Ecological Risk Assessment, 8:805-822.

Sargent, E.V. and F. Gallo (2003). Use of Personal Protective Equipment for Respiratory Protection, Institute for Laboratory Animal Research Journal, 44:52-56.

Naumann, B.D., D.G. Dolan and E.V. Sargent (2004). Rationale for the Chemical-Specific Adjustment Factors Used to Derive an Occupational Exposure Limit for Timolol Maleate, Human and Ecological Risk Assessment, 10:99-111.

Dolan, D.G., B.D. Naumann, E.V. Sargent, A. Maier and M. Dourson (2005) Application of the Toxicological Concern Concept to Pharmaceutical Manufacturing Operations, Regulatory Toxicology and Pharmacology, 43: 1-9.

Sargent, E.V., (2006) Biomarkers in Occupational Safety and Health in Toxicologic Biomarkers, A. DeCaprio ed., Marcel Dekker, New York.

Silverman, K.C., J.G. Tell, E. V. Sargent, and Z. Qiu (2007) Comparison of the Industrial Source Complex and AERMOD Dispersion Models: Case Study for Human Health Risk Assessment, Journal Air and Waste Management Association, 57: 1439-1446.

Naumann, B. D., P. A. Weideman, R. Sarangapani, S. C. Hu, R. Dixit and E. V. Sargent (2009) Investigations of the Use of Bioavailability Data To Adjust Occupational Exposure Limits for Active Pharmaceutical Ingredients, Toxicological Sciences, 112: 196-210.

Sargent, E.V., B.D. Naumann and C.S. Schwartz (2010) Occupational Toxicology Testing, in Comprehensive Toxicology, Vol. 2, Edition 2, Toxicological Testing and Evaluation, C. McQueen ed., Elsevier Science Ltd., Oxford.

Sussman, R.G., E.V. Sargent and T.L. Davidson, (2010), Dose response analysis in experimental toxicology and risk assessment, in General and Applied Toxicology, 3rd Edition, B. Ballantyne, T. Marrs and P Turner, eds., The Macmillan Press Ltd., United Kingdom.

Borgert, C.J., E.V. Sargent, G. Casella, D.R. Dietrich, L.S. McCarty and R.J. Golden (2012) The Human Relevant Potency Threshold: Reducing Uncertainty by Human Calibration of Cumulative Risk Assessments, Regulatory Toxicology and Pharmacology, 62: 313-328.

Sargent, E.V., E. Faria, T. Pfister, and R.G. Sussman (2013) Guidance on the Establishment of Acceptable Daily Exposure Limits (ADE) to Support Risk-Based Manufacture of Pharmaceutical Products, Regulatory Toxicology and Pharmacology, 65: 242-250.

Walsh, A., M. Ovais, T. Altmann and E.V. Sargent (2013) Cleaning Validation for the 21st Century: Acceptance Limits for Cleaning Agents, Pharmaceutical Engineering, 33: 1-11.

ABSTRACTS AND PRESENTATIONS

Burns, F.J., E.V. Sargent, R.E. Albert. (1979) The Induction and Repair of DNA Strand Breaks in Electron Irradiated Rat Epidermis. (Abstract). Presented at 6th International Meeting of the Congress of Radiation Research, Tokyo, Japan. May.

Sargent, E.V. and F.J. Burns. (1980) Induction of DNA Strand Breaks by Electron Radiation in Rat Epidermis Treated with the Sensitizer 5-Bromo-2'-deoxyuridine. (Abstract). Radiat. Res., 83:4278.

Burns, F.J., E.V. Sargent, and R.E. Albert. (1980) The Dose-Response for Rat Skin Tumor Induction Estimated from Multiple Doses. (Abstract). Radiat. Res., 83:435, 1980.

Burns, F.J. and E.V. Sargent and R.E. Albert. (1981) Carcinogenicity and DNA Break Repair as a Function of Age in Irradiated Rat Skin. (Abstract) Proc. Am. Assoc. Cancer Res., 22:91.

Sargent, E.V. and F.J. Burns. (1981) Radioautographic Measurement of the Acute Lethal Effect of Electron Radiation in Epidermis of Different Aged Rats. Radiat. Res., 87: 502 . (Abstract)

Albert, R.E., F.J. Burns and E.V. Sargent. (1981) Skin Tumorigenesis by Multiple Doses of Electron Radiation in the Rat. Radiat. Res., 87:453. (Abstract)

Burns, F.J., E.V. Sargent and R.E. Albert. (1981) Repair in a Quadratic Dose-effect Model of Radiation Carcinogenesis. Radiat. Res. 87:404. (Abstract)

Garte, S.J., E.V. Sargent, R.G. Mallon, D.C. Currie, and S. Belman. (1982) The S1 Nuclease Assay for Detection of DNA Damage and Repair by Toxic Agents, Society of Toxicology Meeting, Philadelphia. (Abstract)

Burns, F.J., E.V. Sargent, D. McCormick, and R.E. Albert. (1982) Retinoid Inhibition of Radiation-Induced Rat Skin Tumors. Proc. Amer. Assoc. Can. Res., 23:899. (Abstract)

Sargent, E.V., G.D. Kirk, M.A. Khan and M. Hite (1985) Risk Assessment and Handling Precautions for Monochloroacetone. American Industrial Hygiene Conference, Las Vegas, Nevada.

Hite, M., E.V. Sargent and G.D. Kirk (1985) Toxicological Evaluation of Monochloroacetone. American Industrial Hygiene Conference, Las Vegas, Nevada.

Sargent, E.V., M.O. Bradley, J.F. Sina, J.D. DeLuca, M.J. Armstrong, and S. M. Galloway (1987) The Identification and Handling of Genotoxic Agents in the Workplace. American Industrial Hygiene Conference, Montreal, Quebec, Canada.

Sargent, E. V., Impact of potency on exposure limits for new pharmaceutical compounds; (1989) Pharmaceutical Manufacturers' Association Symposium, Columbia, South Carolina. (invited presentation)

Conine, D.L., Galer, D.M., Sprague, G.L., Hecker, L.H., Naumann, B.D., Brooks, L., Sussman, R.G., Sargent, E.V., Gad, S.C., Mehring, J.S., Boehlert, J.P., and White, T.X. (1990) Procedures for Setting Health-Based Residue Limits for Organic Volatile Impurities in Pharmaceuticals; Society of Toxicology, Miami Beach, Florida. (Poster)

Naumann, B.D., Conine, D.L., Hecker, L.H., Sargent, E.V., Gad, S.C., Mehring, J.S., Brooks, L., Koenig, G.R., Shah, P.V., Boehlert, J.P., and White, T.X. (1990) Application of the PMA Procedure for Setting Residue Limits to Methylene Chloride; Society of Toxicology, Miami Beach, Florida. (Poster)

Naumann, B.D., E.V. Sargent, J.P. Boehlert, and T.X. White. (1991) Application of the PMA Procedure for Setting Residue Limits for Organic Volatile Solvents in Pharmaceuticals to Trichloroethylene; Society of Toxicology, Dallas, Texas. (Poster)

Nilsson, R., B. Molholt, and E.V. Sargent (1991) Quantitative Assessment of the Carcinogenic Potential of Propylene Oxide; Society of Toxicology, Dallas, Texas. (Poster)

Nilsson, R., D. Segerbäck, S. Osterman-Golkar, B. Molholt, and E.V. Sargent (1991). A Human Carcinogenic Potency Factor for Propylene Oxide by Inhalation; Society of Toxicology, Seattle, Washington. (Poster)

Segerbäck, D., Nilsson, R., Sargent, E.V., and Molholt (1993) B. Propylene oxide alkylate DNA at a constant rate across species; Environmental Mutagen Society Meeting, Norfolk. (Poster)

Galer, D.M., Gad, S.C., Leong, B., Sargent, E.V., Shah, P.V., Sina, J., Sussman, R. G. (1993) An 11-company program to evaluate alternatives to the rabbit eye irritation test; Society of Toxicology, Seattle, Washington. (Poster).

Sina, J., Gautheron, P., Sussman, R.G., Curren, R., Miller, K., Galer, D. M., Gad, S. C., Leong, B., Sargent, E.V., Shah, P. V. (1993) Testing of 37 compounds from 11-company study in three in vitro tests and SAR computer-based model for evaluation as alternatives to the eye irritation test; Society of Toxicology, Seattle Washington. (Poster)

Curren, R., Galer, D. M., Gad, S. C., Leong, B., Sargent, E. V., Shah, P. V., Sina, J.,

Sussman, R. G. (1993) Testing of 37 compounds from 11-company study in cytotoxicity models used as alternatives to the eye irritation test; Society of Toxicology, Seattle, Washington. (Poster)

Rowe, P. (Merck Research Laboratories, Rahway, NJ), Bulich, A. (Microbics Corp., Carlsbad, Ca), Slimm, K. (Merck Research Laboratories, Rahway, NJ), Sina, J. (Merck Research Laboratories, West Point, Pa), Sargent, E. (Merck & Co., Inc., Whitehouse Station, NJ) (1994) An Evaluation Of The Mutatox® Luminescence Bacteria Test System As A Genotoxicity Assay. (Poster)

Sargent, E.V., A Practical Approach to Establishing In-house Occupational Exposure Limits (1996) Symposium on Establishing Occupational Exposure Limits, Health and Safety Authority, Cork, Ireland. (invited presentation)

Weideman, P.A., Naumann, B.D., Shen, C.F., Thomas, J.M., Shelton, B.A., Dixit, R. and Sargent, E.V. (1997) The Use of Bioavailability Data in Setting Occupational Exposure Limits, Society of Toxicology Meeting, Cincinnati, OH. (Poster)

Sargent, E.V., (1997) International Health and Safety Issues, Pharmaceutical Research and Manufacturer's Association, 9th Occupational Safety and Health Workshop, Washington, D.C, (Invited Presentation)

Sargent, E.V., (1998) International standard Setting Activities – OECD, Drug Information Association Meeting, Bethesda, MD. (Invited Presentation)

Sargent, E.V., (2001) Medical Surveillance Programs in the Pharmaceutical Industry – 4th Annual Mid Atlantic Regional Conference on Occupational Medicine, Philadelphia (invited presentation).

Sargent, E.V. (2001) The Importance of Human Data in the Establishment of Occupational Exposure Limits. 5th Annual 10X Uncertainty Factor Workshop, University of Medicine and Dentistry of New Jersey, Newark, NJ

Sargent, E.V. and J. Fawell (2003). SOT/EUROTOX Debate: Do Pharmaceuticals in Drinking Water Pose a Risk to Human and Environmental Health, Salt Lake City, Utah and Florence, Italy.

Sargent, E.V. (2003) Human Health Risks and Pharmaceuticals in the Environment. Mid Atlantic Chapter of the Society of Toxicology Symposium on Pharmaceuticals in the Environment: Risks and Realities, East Windsor, NJ.

Sargent, E.V. (2004) Feasibility Analysis of Engineering Controls, Annual Meeting of the Pharmaceutical Safety Group, San Juan, Puerto Rico (invited presentation).

Sargent, E.V. (2005) Feasibility Analysis of Engineering Controls – An Update, Annual Meeting of the Pharmaceutical Safety Group, Boca Raton, FL (invited presentation).

Sargent, E.V. (2005) Health-Based Limits for Quality Health and Safety, International Society of Pharmaceutical Engineers Potent Compounds Containment Conference, Washington DC (invited presentation)

Sargent, E.V. (2006) Occupational and Environmental Health in the Pharmaceutical Industry, Raritan Valley Community College, New Jersey (invited lecture)

Sargent, E.V. (2006) Overview of Global Environmental Assessment Programs, Japan Pharmaceutical Manufacturers Association, Tokyo, (invited presentation)

Sargent, E.V. (2006) Risk Assessment and Occupational Health in the Pharmaceutical Industry University of Florida Center for Environmental and Human Toxicology, Gainesville, Florida (invited seminar)

Sargent, E.V. D.O. Kleindorfer and F. Pia (2006) Current Issues in Lay CPR Instruction, Emergency Cardiovascular Care Update Conference, Orlando, FL.

Sargent, EV (2007) Risk-based Manufacturing of Pharmaceutical Products, International Society of Pharmaceutical Engineering Symposium, Tokyo, Japan.

Sargent, EV (2008) The Use of Bioavailability Data when Setting Occupational Exposure Limits for Active Pharmaceutical Ingredients, US Environmental Protection Agency Conference on Assessing Bioavailability as a Determinant of Pollutant Exposure, Tampa, FL (Conference presenter)

Sargent, EV (2008) Worker Safety Concerns With Nanotechnology, International Food Technology Association Meeting and Food Expo, New Orleans LA, (invited symposium presentation)

Sargent, EV (2008) The REACH Framework for Using QSARs, Occupational Toxicology Roundtable, Baltimore MD (Session Chairman and invited presenter)

Sargent EV (2009) REACH Implications for ACGIH TLV Committee, ACGIH TLV Committee Meeting Educational Session, Cincinnati, OH. (invited Educational Session presenter)

Sargent EV (2009) Benchmarking Approaches Used in Controlling Genotoxic Compounds in the Pharmaceutical Workplace, Occupational Toxicology Roundtable, Santa Barbara, CA (invited speaker).

Sargent EV: (2010) Risk Identification: The Science of Setting Limits, International Society for Pharmaceutical Engineering Annual Meeting, Orlando FL. (Invited Presentation).

Sargent EV; RJ Golden, DR Dietrich; G Casella; LS McCarty; and CJ Borgert: (2011) The Human Relevant Potency Threshold – Uncertainty Analysis and Human Calibration for Risk Assessment, Society of Toxicology Meeting, Washington DC, March 7-11, (Poster).

Sargent EV: (2011) Establishing Exposure Limits for Pharmaceutical Compounds, INTERPHEX Japan Technical Conference, Tokyo, Japan, July 1, (Invited Speaker).

Borgert CJ; EV Sargent; G Casella; DR Dietrich; LS McCarty; and RJ Golden: (2011) The Human Relevant Potency Threshold: Reducing Uncertainty in Cumulative Risk Assessment by Calibration with Human Data, International Toxicology of Mixtures Conference, October 21-23, Arlington, Va., (Poster Abstract 112)

Sargent E.V. and B.D. Naumann (2012) Derivation of F Values for Determining Child Resistant Packaging of Pharmaceutical Products, Society of Toxicology Meeting, San Francisco, CA, March 2012, (Poster).

Sargent E.V. (2013) Occupational Toxicology in the 21st Century, Mid Atlantic Chapter Society of Toxicology Annual Meeting Ambassador of Toxicology Award Lecture, Raritan Center, NJ, October, 2013.

